FORM PTO-1449 DOCKET NUMBER APPLICATION NUMBER FGT 386 (202-0402) 10/064,006 INFORMATION DISCLOSURE **APPLICANTS** CITATION IN AN APPLICATION Gopichandra Surnilla and John M. Roth FILING DATE **GROUP ART UNIT** June 4, 2002 3747 U.S. PATENT DOCUMENTS SUB CLASS FIL. DATE IF APPROP. **EXAMINER** DOCUMENT CLASS INITIAL NUMBER 01-16-1979 Iizuka et al. 4,134,261 4,207,855 06-1980 **Phillips** 4,467,602 08-28-1984 Iizuka et al. 4,860,716 08-1989 Deutschmann 5,496,228 03-05-1996 Takata et al. 5,778,666 07-1998 Cullen et al. 5,930,992 08-1999 Esch et al. 09-1999 Cook et al. 5,950,603 6,014,963 01-2000 Narita Herold et al. 12-2000 6,158,218 12-2000 6,161,531 Hamburg et al. FOREIGN PATENT DOCUMENTS DOCUMENT DATE COUNTRY CLASS SUB TRANSLATION CLASS NUMBER YES NO 10107158 A1 08-2001 X DE OTHER DOCUMENTS DATE CONSIDERED **EXAMINER** 7-22-04 MONANGM

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS		UB ASS	FIL. DATE		
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8	6,382,193	05-2002	Boyer et al.							
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· ()	5,992,142	11-30-1999	Pott						
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B/	55-49549	04-10-1980	JP			Х			
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	INFO	RMA	TION DISCLOSURE	Application Number	To be assigned /0/m/	4.00%
	STATI	ЕМЕ	NT BY APPLICANT	Filing Date 6-4-02	Herewith 6-4-0	2
				Applicants	Surnilla; Roth	
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				ay Catalysts", SAE 800019, Febr	<u> </u>	
				o Reduce Emissions, I. Engine-E	Emissions Relationships",	$\mathcal{Q} = \mathcal{Q}$
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				al, "Engineered Control Strateg	•	ф
				pplications", SAE 881595, Octob		Φ
				Dynamic Behavior Analysis of Th	ree Way Catalytic Reaction	' ,
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¹Unique citation designation number.

²Applicant is to place a check mark here if English language Translation is attached.

³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST, 16 if possible.

⁶Applicant is to place a check mark here if English language Translation is attached.

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EXAMINER	Cita	DOCUMENT		U.S. PATENT DOCUM		Pages, Columns, Lines,
INITIAL*	No.	NUMBER	Kind Code ² (If known)	NAME	DATE MM-DD-YY	Where Relevent Passages or R Figures Appear
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	し	4,033,122		Masaki et al	07-05-77	
\dashv		4,178,883		Herth	12-18-79	
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_	1.	4,622,809		Abthoff et al	11-18-86	
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DE 196 07 151 C1 Siemens AG 07-10-97 EP 0 351 197 A2 Sohnson Matthey 01-17-90 EP 0 444 783 A1 CON Lucas Industries 09-04-91	EXAMINER INITIAL*	Cite, No.	Foreign Office ³	Patent Document Number [®]	Kind Code ³ (If known)	NAME .	DATE MM-DO-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
			DE	196 07 151 C1			07-10-97	
ED 0.444 794 A1 COM Lucas industries 09-04-91			EP	0 351 197 A2	1,00	Johnson Matthey	01-17-90	
1 45 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	-5		EP,	0444.783.A1		Lucas Industries	09-04-91	

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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached. ²Enter Office that issued the document, by the two-latter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precedt serial number of the patent document. ³Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁴Applicant is to place a check mark here if English language Translation is attached.

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				Applicants	Sumilla; Roth	
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191	V	5,233	3,830		Take	shima et al	08	10-93	
421	T	5,267	7,439		Raff	et al	12	07-93	
	Ö	5,270	0,024		Kasa	hara et al	12	14-93	
	1/	5,272	2,871		Ośhi	ma et al	12	28-93	
		5,32	5,664		Seki	et al	07-	05-94	
	1	5,331	,809		Take	shima et al	07-	26-94	
	0	5,335	5,538		Blisc	hke et al	08	09-94	
	V	5,357	7,750		Ito et	al	10	25-94	
	17	5,377	7,484		Shim	izu	01	03-95	
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	i.	5,412	2,945		Kato	h et al	05	09-95	
	V	5,412	2,946		Oshi	ma et al	05	-09-95	
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	V	5,448	3,887		Take	shima	09-	12-95	
TO	V	5,450	722		Take	shima et al	09	12-95	
			_ 	F	DREIGN	PATENT DOCUM	ENT	3	
EXAMINER INITIAL*	Cita No. 1	Foreign Office ³	Patent Docum	Kin	d Code ⁵ known)	NAME		DATE MM-OD-YY	Pages, Columns, Unes, Where Relevant Passages or Relevant Figures Appear
		JP	2-207159			Toyota		08-16-90	
		JP	2-30915			Toyota		02-01-90	
	<u> </u>	JP	2-33408			Toyota		02-02-90	· · · · · · · · · · · · · · · · · · ·
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College	122	JP	5 106493			Honda		04-27-93	

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¹Unique citation designation number. ¹Applicant is to piace a check mark here if English tanguage Translation is attached. ¹Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must preced serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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					Applicants	Surnilla; Roth
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Sheet	3	of	7		Attorney Docket Number	202-0402

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	11/	5,473	3,887		Take	shima et al	12	12-95	
	1	5,473	3,890 -		Take	shima et al	12	-12-95	
	V	5,483	3,795		Kato	h et al	01	16-96	
	V	5,544	,482		Mats	umoto et al	08	13-96	
	1	5,551	,231		Tana	ka et al	09	-03-96	
	0	5,577	7,382		Kihai	ra et al	11	-26-96	
	L	5,595	,060		Toga	i et al	01	21-97	
	L	5,598	,703		Hami	burg et al	02	04-97	
	V	5,622	,047		Yama	ishita et al	04	22-97	
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	1/	8,657	,625		Koga	et al	08	19-97	
	V	5,693	3,877		Ohsu	iga et al	12	-02-97	
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	5/	5,715	,679		Asan	uma et al	02-	10-98	
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	V	5,732	,554		Sasa	ki et ai	03-	31-98	
ND	17	5,735	i,119		Asan	uma et al	04	07-98	
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		JP	5-106494			Honda		04-27-93	·
 		JP	5-26080			Mitaubiahi Motora		02-02-93	
		JP	62-117620)	r	Nippon Shokubai		05-29-87	
		JP	6-264787 62-97630	(10	The second	Nissan Motor		09-20-94	· · · · · · · · · · · · · · · · · · ·
72	700	JP.	82-97630	2000		Nippon Shokubai		05-07-87	
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Substitute	for form 1	49A/PTO			Complete if Known					
INFORM	ATION	DISC	LO	SURE	Application Number	To be assigned				
STATEM	ENT B	Y API	PLIC	CANTS	Filing Date	Herewith				
					Applicants	Sumilla; Roth				
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					Examiner Name					
Sheet	4	of	7		Attorney Docket Number	202-0402				

EXAMINER INITIAL!	Cite, No. 1	DOCUI		Kind Code ² (if known)		NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or R Figures Appear
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1		5,743	,084		Hepb	urn	04-28-98		·
		5,746	,049		Culle	n et al	05-	05-98	
	1	5,746	,052	Kato		et al 05- ey et al 08-		05-98	
	6	5,752	,492					19-98	
	6	5,792	2,436					11-98	
		5,842	,340					01-98	
	V	5,865,027 5,970,707 5,974,793		Hana		fusa et al 02-02-9		02-99	
					Sawa			-26-99	
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		5,983	5,983,627		Asik Yoshizaki et al		11-16-99 01-18-00		
1	U	6,014,859 4,036,014 4,964,272 5,410,873 5,412,945 5,419,122							
	1				Ariga	1	07-19-77 ma 10-23-90		
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	1				Tash	iro 05	05-	5-02-95	
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~ 7		5,437	7,153		Take	shima et al	08-	01-95	
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		JP	64-53042		T	Mitsubishi	\Box	03-01-89	
		JP	6-58139	•		Nissan Motor		03-01-94	
		JP	7-97941			Kazuhiro et al		04-11-95	
		EP	0 351 197	NOT.	1800	Johnson Matthey		01-17-90	
N	5	Eb.	Q 503 882	A1	¥	S. Takeshima		09-16-92	

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^{*}Unique citation designation number. *Applicant is to piece a check mark here if English tanguage Translation is attached. *Enter Office that issued the document, by the two-latter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the English are propriete symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE	Application Number	To be assigned	
STATEMENT BY APPLICANTS	Filing Date	Herewith	
	Applicants	Sumilla; Roth	
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Sheet 5 of 7	Attorney Docket Number	202-0402	

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EXAMINER INITIAL*	Cite No. 1	DOCUMENT NUMBER	Kind Code ² (If known)		NAME	DATE MM-DD-YY	Pages. Columns, Lines, Where Relevant Passages or Rel Figures Appear
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	1	5,626,117		Wrlg	ht et al	05-06-97	
	17	5,113,199		Takeshima et al		02-03-98	
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		WP 98/27322	·····		Ford Motor Co.	06-25-98	
		JP 7-166851	COVI	1000	Toyota	06-27-95	
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Substitute	for form 14	149A/PTO		Complete if Known			
INFORM	ATION	DISC	LOSURE	Application Number	To be assigned		
			PLICANTS	Filing Date	Herewith		
				Applicants	Sumilla; Roth		
(use as many	sheets as	necessa	y)	Group Art Unit			
•				Examiner Name			
Sheet	6	of	7	Attorney Docket Number	202-0402		

				U.S. F	PATENT DOCUME	NTS	•	
EXAMINER INITIAL*	Cite No. 1	DOCUMENT NUMBER	Kind Code ² (if known)		NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Re Figures Appear
	0	6,012,428		Yano	et al	01	-11-00	
7.	V	6,023,929		Ma		02	15-00	
	C	6,058,700		Yama	ashita et al	05	-09-00	'
	C	5,419,898		Culle	n et al	01-	02-96	
	U	8,189,316		Sum	illa et al	02	20-01	
1		5,497,745		Culle	n et al	03	12-96	
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EXAMINER INITIAL*	Cite No. 1	Foreign Pate	K	nd Code ⁵ ' <i>known</i>)	NAME		DATE MM-DD-YY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Substitute for form 1449A/PTO	Complete if Known				
INFORMATION DISCLOSURE	Application Number	To be assigned			
STATEMENT BY APPLICANT	Filing Date	Herewith			
	Applicants	Sumilla; Roth			
(use as many sheets as necessary)	Group Art Unit				
	Examiner Name				
Sheet 7 of 7	Attorney Docket Number	202-0402			

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
EXAMINER INITIAL*	Cita No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the litem (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		JOE THEIS et al, "An Air/Fuel Algorithm To Improve The NOx Conversion Of Copper-Based
		Catalysts", SAE Technical Paper No. 922251, October 19-22, 1992, pp. 77-89.
		Y. KANEKO et al, "Effect of Air-Fuel Ratio Modulation on Conversion Efficiency of Three-Way
	[Catalysts", INTER-INDUSTRY EMISSION CONTROL PROGRAM 2 (IIEC-2) PROGRESS
		REPORT NO. 4, SAE Technical Paper No. 780607, June 5-9, 1978, pp. 119-127.
	<u> </u>	ALAN F. DIWELL, "Engineered Control Strategies For Improved Catalytic Control of NOx in
	•	Lean Burn Applications", SAE Technical Paper No. 881595, 1998, pp. 1-11.
		ALLEN H. MEITZLER, "Application of Exhaust-Gas-Oxygen Sensors to the Study of Storage
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		W.H. HOLL, "Air Fuel Control to Reduce Emissions, L Engine-Emissions Relationships",
		SAE 800051, February 25-29, 1980.
		WEI-MING WANG, "Air-Fuel Control to Reduce Emissions, II. Engine-Catalyst
		Characterization Under Cyclic Conditions*, SAE 800052, February 25-29, 1980.
	1	CHRISTOPHER D. DE BOER et al, "Engineered Control Strategies for Improved Catalytic
لاقه	1,000	Control of NOx in Lean Burn Applications", SAE 881595, October 10-13, 1988.
, \	100 A	TOSHIAKI YAMAMOTO et al, "Dynamic Behavior Analysis of Three Way Catalytic Reaction",
. LS	1 > ``	JSAE 882072 - 882166
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